

DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SUBSTITUTED POLYCYCLIC ARYL AND HETEROARYL PYRAZINONES USEFUL FOR
SELECTIVE INHIBITION OF THE COAGULATION CASCADE**

The specification of which, with any Preliminary Amendment, (check one)
☐ is attached hereto

☒ was filed on May 18, 2000 as Application Serial No. 09/574,752 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, '1.56(a)

I hereby claim foreign priority benefits under Title 35, United States Code, '119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

PRIOR FOREIGN APPLICATION(S)

Priority Claimed

 (Number) (Country) (Day/month/year filed)

☐ Yes ☐ No

 (Number) (Country) (Day/month/year filed)

☐ Yes ☐ No

 (Number) (Country) (Day/month/year filed)

☐ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code, '120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, '112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, '1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

 (Application Serial No.) (Filing date) (Status)

 (Application Serial No.) (Filing date) (Status)

POWER OF ATTORNEY: As a named inventor, I hereby appoint as attorneys/agents: S. CHRISTOPHER BAUER, Registration No. 42,307; GEORGE R. BECK, Registration No. 21,180; DENNIS A. BENNETT, Registration No. 34,547; JON H. BEUSEN, Registration No. 30,610; GARY M. BOND, Registration No. 29,283; GRACE L. BONNER, Registration No. 32,963; JOSEPH W. BULOCK, Registration No. 37,103; JAMES C. FORBES, Registration No. 39,457; DENNIS R. HOERNER, Registration No. 30,914; J. TIMOTHY KEANE, Registration No. 27,808; CYNTHIA S. KOVACEVIC, Registration No. 35,578; LARRY M. LAVIN, Registration No. 30,768; THOMAS P. MCBRIDE, Registration No. 32,706; RICHARD A. MUELLER, Registration No. 41,094; STASIA OGDEN, Registration No. 36,228; MICHAEL J. ROTH 29,342; ALAN SCRIVNER, Registration No. 43,104; BRIAN K. STIERWALT, Registration No. 33,213; J. MICHAEL WARNER, Registration No. 45,199; ROGER A. WILLIAMS, Registration No. 27,679; SCOTT A. WILLIAMS, Registration No. 39,876; to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Direct all telephone calls to J. Timothy Keane at 314-694-9090 and address all correspondence to:

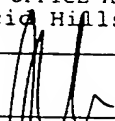
G. D. Searle & Co.
Corporate Patent Law Department
P.O. Box 5110
Chicago, Illinois 60680-9889

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

1)

FULL NAME OF INVENTOR	LAST NAME South	FIRST NAME Michael	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY St. Louis	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 11671 Chieftain Drive	CITY St. Louis	STATE OR COUNTRY Missouri
			ZIPCODE 63146
SIGNATURE OF INVENTOR 1	<i>Michael S. South</i>		DATE 7-6-00

2)

FULL NAME OF INVENTOR	LAST NAME Parlow	FIRST NAME John	MIDDLE NAME J.
RESIDENCE & CITIZENSHIP	CITY Arnold	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 4841 Placid Hills Road	CITY Arnold	STATE OR COUNTRY Missouri
			ZIPCODE 63010
SIGNATURE OF INVENTOR 2			DATE 7/5/00

3)

FULL NAME OF INVENTOR	LAST NAME Jones	FIRST NAME Darin	MIDDLE NAME E.
RESIDENCE & CITIZENSHIP	CITY Ballwin	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 408 Johanna Place Drive	CITY Ballwin	STATE OR COUNTRY Missouri
			ZIPCODE 63021
SIGNATURE OF INVENTOR 3		DATE 7-10-00	

4)

FULL NAME OF INVENTOR	LAST NAME Case	FIRST NAME Brenda	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY St. Louis	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 8 South Tealbrook Drive	CITY St. Louis	STATE OR COUNTRY Missouri
			ZIPCODE 63141
SIGNATURE OF INVENTOR 4		DATE July 7, 2000	

5)

FULL NAME OF INVENTOR	LAST NAME Dice	FIRST NAME Tom	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY St. Charles	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 407 North Fourth	CITY St. Charles	STATE OR COUNTRY Missouri
			ZIPCODE 63301
SIGNATURE OF INVENTOR 5		DATE 7-18-2000	

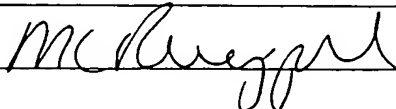
6)

FULL NAME OF INVENTOR	LAST NAME Lindmark	FIRST NAME Richard	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Kirkwood	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 1316 Woodgate Drive	CITY Kirkwood	STATE OR COUNTRY Missouri
			ZIPCODE 63122
SIGNATURE OF INVENTOR 6		DATE 7/12/00	

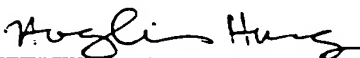
7)

FULL NAME OF INVENTOR	LAST NAME Hayes	FIRST NAME Michael	MIDDLE NAME J.
RESIDENCE & CITIZENSHIP	CITY St. Louis	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 668 Chelsea Avenue	CITY St. Louis	STATE OR COUNTRY Missouri
			ZIPCODE 63122
SIGNATURE OF INVENTOR 7		DATE 7 July 2000	

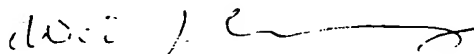
8)

FULL NAME OF INVENTOR	LAST NAME Rueppel	FIRST NAME Melvin	MIDDLE NAME L.
RESIDENCE & CITIZENSHIP	CITY St. Louis	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 1904 Grassy Ridge Road	CITY St. Louis	STATE OR COUNTRY Missouri
			ZIPCODE 63122
SIGNATURE OF INVENTOR 8			DATE 7/5/00

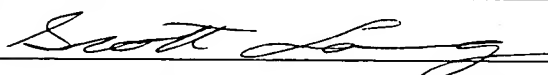
9)

FULL NAME OF INVENTOR	LAST NAME Huang	FIRST NAME Horng-Chih	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Chesterfield	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. Taiwan, R.O.C.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 15481 Duxbury Way	CITY Chesterfield	STATE OR COUNTRY Missouri
			ZIPCODE 63017
SIGNATURE OF INVENTOR 9			DATE 7/24/00

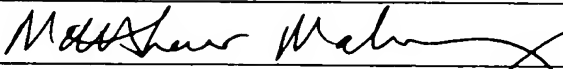
10)

FULL NAME OF INVENTOR	LAST NAME Huang	FIRST NAME Wei	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Wildwood	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. People's Republic of China
POST OFFICE ADDRESS	POST OFFICE ADDRESS 919 Crown Pointe Estates Drive	CITY Wildwood	STATE OR COUNTRY Missouri
			ZIPCODE 63021
SIGNATURE OF INVENTOR 10			DATE 7/20/00

11)

FULL NAME OF INVENTOR	LAST NAME Long	FIRST NAME Scott	MIDDLE NAME A.
RESIDENCE & CITIZENSHIP	CITY Ballwin	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 212 Oakbriar Farm Drive	CITY Ballwin	STATE OR COUNTRY Missouri
			ZIPCODE 63021
SIGNATURE OF INVENTOR 11			DATE 7/25/00

12)

FULL NAME OF INVENTOR	LAST NAME Mahoney	FIRST NAME Matthew	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY St. Peters, Mo.	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 1154 Carrington Drive	CITY St. Peters	STATE OR COUNTRY Missouri
			ZIPCODE 63376
SIGNATURE OF INVENTOR 12			DATE 7/24/00

13)

FULL NAME OF INVENTOR	LAST NAME Neumann	FIRST NAME Matthew William	MIDDLE NAME L.
RESIDENCE & CITIZENSHIP	CITY St. Louis	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 212 West Monroe	CITY St. Louis	STATE OR COUNTRY Missouri
			ZIPCODE 63122
SIGNATURE OF INVENTOR 13		DATE 7/7/00	

14)

FULL NAME OF INVENTOR	LAST NAME Reitz	FIRST NAME David	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Chesterfield	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 14814 Pleasant Ridge Court	CITY Chesterfield	STATE OR COUNTRY Missouri
			ZIPCODE 63017
SIGNATURE OF INVENTOR 14		DATE 8/16/00	

15)

FULL NAME OF INVENTOR	LAST NAME Trujillo	FIRST NAME John	MIDDLE NAME I.
RESIDENCE & CITIZENSHIP	CITY Creve Coeur	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 12362-I Amber Creek Court	CITY Creve Coeur	STATE OR COUNTRY Missouri
			ZIPCODE 63141
SIGNATURE OF INVENTOR 15		DATE 7/24/00	

16)

FULL NAME OF INVENTOR	LAST NAME Wang	FIRST NAME Ching-Cheng	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Wildwood	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. Taiwan, R.O.C.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 2470 Maple Crossing Drive	CITY Wildwood	STATE OR COUNTRY Missouri
			ZIPCODE 63011
SIGNATURE OF INVENTOR 16		DATE 07/24/00	

17)

FULL NAME OF INVENTOR	LAST NAME Wood	FIRST NAME Rhonda	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Maryland Heights	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 12473 Whisper Hollow Drive, Apt. K	CITY Maryland Heights	STATE OR COUNTRY Missouri
			ZIPCODE 63043
SIGNATURE OF INVENTOR 17		DATE 7-7-00	

18)

FULL NAME OF INVENTOR	LAST NAME Zeng	FIRST NAME Qingping	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Ballwin	STATE OR FOREIGN COUNTRY Missouri	COUNTRY OF CITIZEN. Taiwan, R.O.C.
POST OFFICE ADDRESS	POST OFFICE ADDRESS 1163 Richland Meadows Drive	CITY Ballwin	STATE OR COUNTRY Missouri ZIPCODE 63021
SIGNATURE OF INVENTOR 18	DATE 7/17/2000		

19)

FULL NAME OF INVENTOR	LAST NAME Fenton	FIRST NAME Rick	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Collinsville	STATE OR FOREIGN COUNTRY Illinois	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 414 Bunker Hill	CITY Collinsville	STATE OR COUNTRY Illinois ZIPCODE 62234
SIGNATURE OF INVENTOR 19	DATE 7/18/00		

20)

FULL NAME OF INVENTOR	LAST NAME Franklin	FIRST NAME Gary	MIDDLE NAME W.
RESIDENCE & CITIZENSHIP	CITY Godfrey	STATE OR FOREIGN COUNTRY Illinois	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 307 St. Anthony	CITY Godfrey	STATE OR COUNTRY Illinois ZIPCODE 62035
SIGNATURE OF INVENTOR 20	DATE July 7, 2000		

21)

FULL NAME OF INVENTOR	LAST NAME Kusturin	FIRST NAME Carrie	MIDDLE NAME
RESIDENCE & CITIZENSHIP	CITY Edwardsville	STATE OR FOREIGN COUNTRY Illinois	COUNTRY OF CITIZEN. USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS 913 Chancellor Drive	CITY Edwardsville	STATE OR COUNTRY Illinois ZIPCODE 62025
SIGNATURE OF INVENTOR 21	DATE 7/18/00		



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 15, 2001

PTAS

PHARMACIA CORPORATION
SCOTT A. WILLIAMS
CORPORATE PATENT DEPARTMENT
P.O. BOX 5110
CHICAGO, ILLINOIS



101634890A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/16/2001

REEL/FRAME: 011565/0386
NUMBER OF PAGES: 13

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
SOUTH, MICHAEL /

DOC DATE: 08/16/2000

ASSIGNOR:
PARLOW, JOHN J. /

DOC DATE: 08/16/2000

ASSIGNOR:
JONES, DARIN E. /

DOC DATE: 08/16/2000

ASSIGNOR:
CASE, BRENDA /

DOC DATE: 08/16/2000

ASSIGNOR:
DICE, TOM /

DOC DATE: 08/16/2000

ASSIGNOR:
LINDMARK, RICHARD /

DOC DATE: 08/16/2000

ASSIGNOR:
HAYES, MICHAEL J. /

DOC DATE: 08/16/2000

ASSIGNOR: RUEPPEL, MELVIN L. /	DOC DATE: 08/16/2000
ASSIGNOR: HUANG, HORNG-CHIH /	DOC DATE: 08/16/2000
ASSIGNOR: HUANG, WEI /	DOC DATE: 08/16/2000
ASSIGNOR: LONG, SCOTT A. /	DOC DATE: 08/16/2000
ASSIGNOR: MAHONEY, MATTHEW /	DOC DATE: 08/16/2000
ASSIGNOR: NEUMANN, WILLIAM /	DOC DATE: 08/16/2000
ASSIGNOR: REITZ, DAVID /	DOC DATE: 08/16/2000
ASSIGNOR: TRUJILLO, JOHN I. /	DOC DATE: 08/16/2000
ASSIGNOR: WANG, CHING-CHENG /	DOC DATE: 08/16/2000
ASSIGNOR: WOOD, RHONDA /	DOC DATE: 08/16/2000
ASSIGNOR: ZENG, QUINGPING /	DOC DATE: 08/16/2000
ASSIGNOR: FENTON, RICK /	DOC DATE: 08/16/2000
ASSIGNOR: FRANKLIN, GARY /	DOC DATE: 08/16/2000
ASSIGNOR: KUSTURIN, CARRIE /	DOC DATE: 08/16/2000

ASSIGNEE:
PHARMACIA CORPORATION /
P.O. BOX 5110
CORPORATE PATENT DEPARTMENT
CHICAGO, ILLINOIS 60680-9889

SERIAL NUMBER: 09574752 /
PATENT NUMBER:

FILING DATE: 05/18/2000 /
ISSUE DATE:

Bun

011565/0386 PAGE 3

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

U.S. PATENT AND TRADEMARK OFFICE
Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

C-3201/1

03-13-2001



101634890

RECORDATION FORM COVER SHEET

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

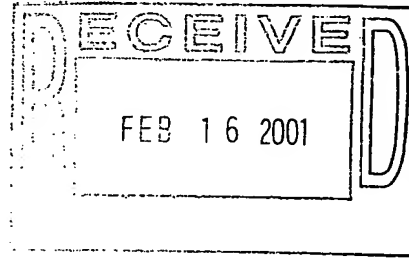
Michael South, John J. Parlow, Darin E. Jones, Brenda Case, Tom Dice, Richard Lindmark, Michael J. Hayes, Melvin L. Rueppel, Horng-Chih Huang, Wei Huang, Scott A. Long, Matthew Mahoney, William Neumann, David Reitz, John I. Trujillo, Ching-Cheng Wang, Rhonda Wood, Quingping Zeng, Rick Fenton, Gary Franklin, and Carrie Kusturina

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: Pharmacia Corporation
Address: Corporate Patent Department
P.O. Box 5110
Chicago, Illinois 60680-9889



Additional name(s) and address(es) of receiving party(ies) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: August 16, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application Serial No. 09/574,752 filed May 18, 2000

B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Pharmacia Corporation
Internal Address: Corporate Patent Department
P.O. Box 5110
Chicago, Illinois
(314) 694-4474 (telephone)

6. Total number of applications and patents involved: ☐ 1

7. Total fee (37CFR 3.41): \$40.00
☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number: 19-1025

03/07/2001 TDIA21 00000124 191025 09574752
01 FC:581 40.00 CH

(Attach duplicate copy of this page if paying by deposit account)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Scott A. Williams, Reg. #39,876

Signature

February 9, 2001
Date

Total number of pages of attached conveyance document including any attachments (and excluding the Recordation Form Cover Sheet):

ASSIGNMENT

WHEREAS, I/WE, Michael South, John J. Parlow, Darin E. Jones, Brenda Case, Tom Dice, Richard Lindmark, Michael J. Hayes and Melvin L. Rueppel, Horng-Chih Huang, Wei Huang, Scott A. Long, Matthew Mahoney, William L. Neumann, David Reitz, John I. Trujillo, Ching-Cheng Wang, Rhonda Wood, Qingping Zeng, Rick Fenton, Gary W. Franklin, Carrie Kusturin, residing at 11671 Chieftain Drive, St. Louis, Missouri 63146; 4841 Placid Hills Road, Arnold Missouri 63010; 408 Johanna Place Drive, Ballwin, Missouri 63021; 8 South Tealbrook Drive, St. Louis, Missouri 63141; 407 North Fourth, St. Charles, Missouri 63301; 1316 Woodgate Drive, Kirkwood, Missouri 63122; 668 Chelsea Avenue, St. Louis, Missouri 63122; 1904 Grassy Ridge Road, St. Louis, Missouri 63122, 15481 Duxbury Way, Chesterfield, Missouri 63017; 919 Crown Pointe Estates Drive, Wildwood, Missouri 63021; 212 Oakbriar Farm Drive, Ballwin, Missouri 63021; 1154 Carrington Drive, St. Peters, Missouri 63376; 212 West Monroe, St. Louis, Missouri 63122; 14814 Pleasant Ridge Court, Chesterfield, Missouri 63017; 12362-I Amber Creek court, Creve Coeur, Missouri 63141; 2470 Maple Crossing Drive, Wildwood, Missouri 63011; 12473 Whisper Hollow Drive, Apt. K, Maryland Heights, Missouri 63043; 1163 Richland Meadows Drive, Ballwin, Missouri 63021; 414 Bunker Hill, Collinsville, Illinois 62234; 307 St. Anthony, Godfrey Illinois 62035; 913 Chancellor Drive, Edwardsville, Illinois 62025, the undersigned, have made certain invention or inventions, which are disclosed in patent application(s) entitled:

SUBSTITUTED POLYCYCLIC ARYL AND HETEROARYL PYRAZINONES USEFUL FOR SELECTIVE INHIBITION OF THE COAGULATION CASCADE

identified as C-3201/1 and;

WHEREAS, Pharmacia Corporation, of Peapack New Jersey, a Corporation of the State of Delaware, is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, I/WE do hereby sell, assign and transfer to said Pharmacia Corporation, its successors and assigns, the entire right, title and interest in and to said invention or inventions, in any form or embodiment thereof, and in and to said application(s); and in and to any and all applications filed in any country based thereon, including the right to file applications in countries other than the country of priority filing under the provisions of any international convention; also in and to any and all improvements on said invention or inventions now or hereafter made by me/us as employee(s), agent(s) or contractor(s) of said Pharmacia Corporation; also the entire right, title and interest in and to any and all patents, including reissues and extensions thereof, to be obtained in any country upon said invention, inventions or improvements, and any and all continuing applications, including divisional, continuation and continuation-in-part applications, substitute applications, and applications claiming benefit of an earlier filed provisional application, which may be filed upon said invention, inventions or improvements in any country; and

I/WE hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said Pharmacia Corporation, as assignee of the entire interest.

I/WE further agree, without any payment by Pharmacia Corporation other than in reimbursement of reasonable expenses I/we may incur, to communicate to said Pharmacia Corporation, its representatives or agents, any facts relating to said invention, inventions or improvements, including evidence for purposes of interference, opposition or other legal proceedings, whenever requested; testify in any interference, opposition or other legal proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective.

IN TESTIMONY WHEREOF, I/WE have hereto set our hands on the dates set after our signatures.

Signature: Michael S. South

Date: 7-06-00

Name: Michael S. South

City and state or country of residence: St. Louis, Missouri, U.S.A.

State of Missouri

}
} ss.
}

County of St. Louis

On this 6th day of July, 2000, before me personally appeared Michael S. South, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer
My Commission Expires: My Commission Expires Sep 25, 2002

KAROL J. WILDER
Notary Public - Notary Seal
State of Missouri
St Louis County
My Commission Expires Sep 25, 2002

Signature: John J. Parlow

Date: 7/5/00

Name: John J. Parlow

City and state or country of residence: Arnold, Missouri, U.S.A

State of Missouri

}
} ss.
}

County of St. Louis

On this 5th day of July, 2000, before me personally appeared John J. Parlow, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer
My Commission Expires: My Commission Expires Sep 25, 2002

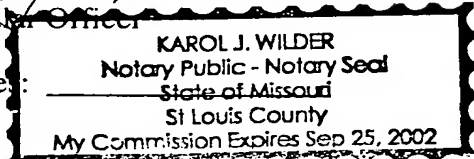
KAROL J. WILDER
Notary Public - Notary Seal
State of Missouri
St Louis County
My Commission Expires Sep 25, 2002

Signature: *Darin E. Jones*Date: 7-20-00Name: Darin E. JonesCity and state or country of residence: Ballwin, Missouri, U.S.AState of Missouri }
County of St. Louis } ss.

On this 10th day of July, 2000, before me personally appeared Darin E. Jones, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

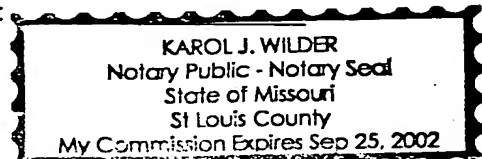
Karol J. Wilder
Notary Public or Consular Officer
My Commission Expires:

Signature: *Brenda Case*Date: July 7, 2000Name: Brenda CaseCity and state or country of residence: St. Louis, Missouri, U.S.AState of Missouri }
County of St. Louis } ss.

On this 7th day of July, 2000, before me personally appeared Brenda Case, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer
My Commission Expires:



Signature: Tom Dice Date: 7-18-2000Name: Tom DiceCity and state or country of residence: Creve Coeur, Missouri, U.S.A

State of Missouri

} ss.

County of St. Louis

St. Charles

On this 18th day of July, 2000, before me personally appeared Tom Dice, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer
My Commission Expires: _____
KAROL J. WILDER
Notary Public - Notary Seal
State of Missouri
St Louis County
My Commission Expires Sep 25, 2002

Signature: Richard Lindmark Date: 7/12/00Name: Richard LindmarkCity and state or country of residence: Kirkwood, Missouri, U.S.A

State of Missouri

} ss.

County of St. Louis

On this 12th day of July, 2000, before me personally appeared Richard Lindmark, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer
My Commission Expires: _____

KAROL J. WILDER
Notary Public - Notary Seal
State of Missouri
St Louis County
My Commission Expires Sep 25, 2002

Signature: *Michael J. Hayes* Date: 7 July 2000
Name: Michael J. Hayes
City and state or country of residence: St. Louis, Missouri, U.S.A

State of Missouri }
County of St. Louis } ss.

On this 7th day of July, 2000, before me personally appeared Michael J. Hayes, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer
My Commission Expires: My Commission Expires Sep 25, 2002
KAROL J. WILDER
Notary Public - Notary Seal
State of Missouri
St Louis County
My Commission Expires Sep 25, 2002

Signature: *Melvin L. Rueppel* Date: 7/5/00
Name: Melvin L. Rueppel
City and state or country of residence: St. Louis, Missouri, U.S.A

State of Missouri }
County of St. Louis } ss.

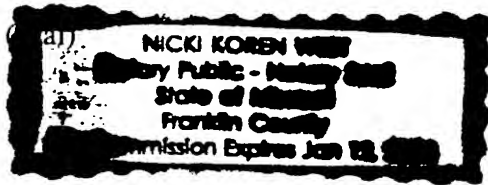
On this 5th day of July, 2000, before me personally appeared Melvin L. Rueppel, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer
My Commission Expires: My Commission Expires Sep 25, 2002
KAROL J. WILDER
Notary Public - Notary Seal
State of Missouri
St Louis County
My Commission Expires Sep 25, 2002

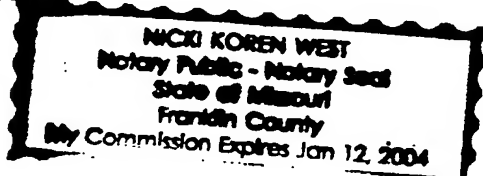
Signature: Hong-Chih Huang Date: 7/24/00Name: Horng-Chih HuangCity and state or country of residence: Chesterfield, Missouri, U.S.AState of Missouri }
County of Franklin } ss.
~~St. Louis~~

On this 24 day of July, 2000, before me personally appeared Horng-Chih Huang, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

Nicki Koren West
Notary Public or Consular OfficerMy Commission Expires: 1/12/04Signature: Wei Huang Date: 7/20/00Name: Wei HuangCity and state or country of residence: Wildwood, Missouri, U.S.AState of Missouri }
County of Franklin } ss.
~~St. Louis~~

On this 20 day of July, 2000, before me personally appeared Wei Huang, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

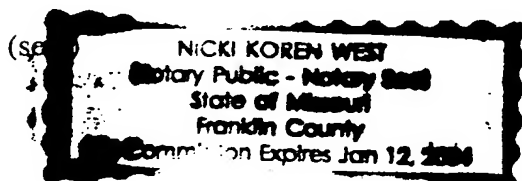
(seal)

Nicki Koren West
Notary Public or Consular OfficerMy Commission Expires: 1/12/04

Signature: Scott Long Date: 7/25/00
Name: Scott A Long
City and state or country of residence: Ballwin, Missouri, U.S.A

State of Missouri }
County of St. Louis } ss.

On this 25 day of July, 2000, before me personally appeared Scott A. Long, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

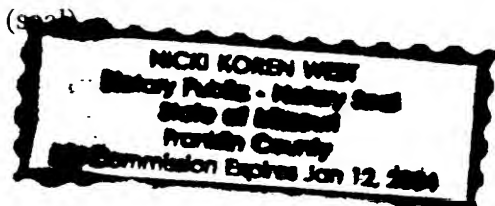


Nicki Koren West
Notary Public or Consular Officer
My Commission Expires: 1/12/00

Signature: Matthew Mahoney Date: 7/27/00
Name: Matthew Mahoney
City and state or country of residence: St. Peters, Missouri, U.S.A

State of Missouri }
County of St. Louis } ss.

On this 24 day of July, 2000, before me personally appeared Matthew Mahoney, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.



Nicki Koren West
Notary Public or Consular Officer
My Commission Expires: 1/12/04

Signature: [Signature] Date: 7-7-00

Name: William L. Neumann

City and state or country of residence: St. Louis, Missouri, U.S.A

State of Missouri

} ss.

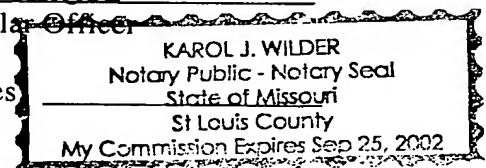
County of St. Louis

On this 7th day of July, 2000, before me personally appeared William L. Neumann, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

[Signature]
Notary Public or Consular Officer

My Commission Expires



Signature: [Signature] Date: 8/16/00

Name: David Reitz

City and state or country of residence: Chesterfield, Missouri, U.S.A

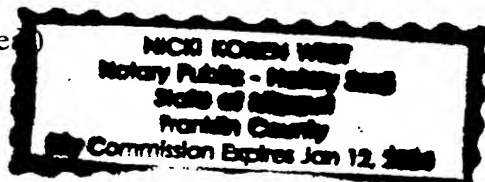
State of Missouri

} ss.

County of St. Louis

On this 16 day of August, 2000, before me personally appeared David Reitz, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)



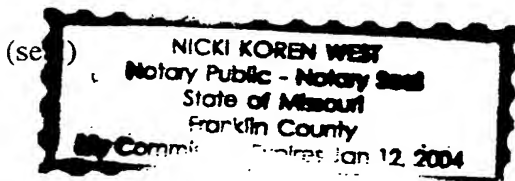
[Signature]
Notary Public or Consular Officer

My Commission Expires: 1/12/04

Signature: [Signature] Date: 7/24/00
Name: John I. Trujillo
City and state or country of residence: Creve Coeur, Missouri, U.S.A

State of Missouri }
County of St. Louis } ss.

On this 24 day of July, 2000, before me personally appeared John I. Trijillo, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

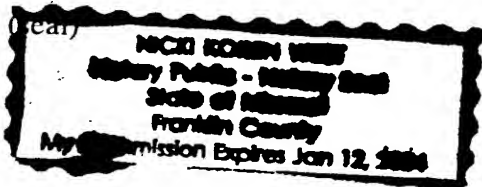


Nicki Koren West
Notary Public or Consular Officer
My Commission Expires: 1/12/04

Signature: [Signature] Date: 07/24/00
Name: Ching-Cheng Wang
City and state or country of residence: Wildwood, Missouri, U.S.A

State of Missouri }
County of St. Louis } ss.

On this 24 day of July, 2000, before me personally appeared Ching-Cheng Wang, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.



Nicki Koren West
Notary Public or Consular Officer
My Commission Expires: 1/12/04

Signature: Rhonda Wood Date: 7-7-00

Name: Rhonda Wood

City and state or country of residence: Maryland Heights, Missouri, U.S.A

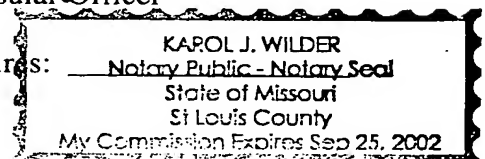
State of Missouri }
County of St. Louis } ss.

On this 7th day of July, 2000, before me personally appeared Rhonda Wood, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer

My Commission Expires:



Signature: Qingping Zeng Date: 7/17/2000

Name: Qingping Zeng

City and state or country of residence: Ballwin, Missouri, U.S.A

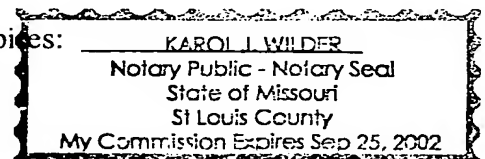
State of Missouri }
County of St. Louis } ss.

On this 17th day of July, 2000, before me personally appeared Qingping Zeng, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer

My Commission Expires:



Signature: *Rick Fenton*

Date: 7/18/00

Name: Rick Fenton

City and state or country of residence: Collinsville, Illinois, U.S.A

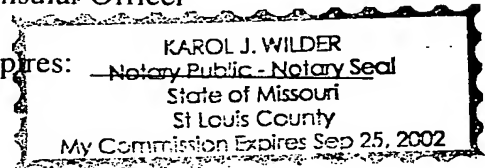
State of Missouri }
County of St. Louis } ss.

On this 18th day of July, 2000, before me personally appeared Rick Fenton, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer

My Commission Expires:



Signature: *Gary W. Franklin*

Date: July 7, 2000

Name: Gary W. Franklin

City and state or country of residence: Godfrey, Illinois, U.S.A

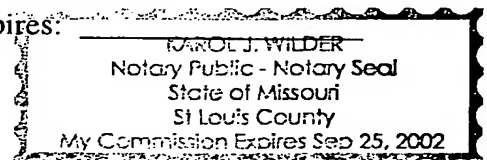
State of Missouri }
County of St. Louis } ss.

On this 7th day of July, 2000, before me personally appeared Gary W. Franklin, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer

My Commission Expires:



Signature: Carrie Kusturin

Date: 7/18/00

Name: Carrie Kusturin

City and state or country of residence: Edwardsville, Illinois U.S.A

State of Missouri }
County of St. Louis } ss.

On this 18th day of July, 2000, before me personally appeared Carrie Kusturin, to me known to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written.

(seal)

Karol J. Wilder
Notary Public or Consular Officer

My Commission Expires:

